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(54) MATERIAL FOR GUIDING, EXCELLENT IN WEAR RESISTANCE AND BURN ON RESISTANCE

(57)Abstract:

PROBLEM TO BE SOLVED: To enable the prevention of a surface flaw caused by a friction at the time of hot high speed rolling, to enable the improvement of a quality, and to attain a low cost by the reduction of a flaw removing process by specifying the void of a thermal spray material and the maximum height of an initial surface roughness after thermal spraying by a material for rolling guide, which has been subjected to the thermal spraying on its surface.

SOLUTION: With the rolling guide material which has been subjected to the thermal spraying on its surface by using oxide, carbide, solid lubrication powder or their powdery mixture, the void of the thermal spray material is set to 15 to 35% and the initial surface roughness after the thermal spraying is set to 80 to 270 μm in its maximum height R_y . Relating to the oxide and the carbide as the thermal spray material, and the oxide as the solid lubrication powder, alumina, Zirconia, chromium oxide, etc., as the oxide, chrome carbide, tungsten carbide, etc., as the carbide, and as the rolling guide material, various kinds of steels, especially the steels which are liable to burn on very much when rolling austenitic and ferritic stainless steels at a high temperature and at a high speed, are to be objective.

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